

I claim:

- a cutting head mounted above said sheet support and  
end portion and operative to cut through said end  
portion;

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a cutting head drive operative to move said cutting head back and forth along a first path substantially parallel to said coil axis;

a sheet metal drive operative to move said end portion forward and rearward along a second path substantially perpendicular to said coil axis;

a computer operative to control and coordinate said cutting head drive and said sheet metal drive such that said pieces are cut from said end portion.

2. The apparatus of Claim 1 further comprising a coil drive operable to rotate said sheet metal coil about said coil axis.
3. The apparatus of Claim 2 wherein said computer is operative to control said coil drive.
4. The apparatus of Claim 3 wherein said computer is operative to rotate said sheet metal coil in a sheet advancing direction wherein said sheet metal unrolls off said sheet metal coil, and in a sheet retracting

FOOTNOTES

direction wherein sheet metal rolls onto said sheet metal coil.

5. The apparatus of Claim 4 wherein said computer is programmed to rotate said sheet metal coil so as to maintain a slack portion of sheet metal between said sheet metal drive and said sheet metal coil.
6. The apparatus of Claim 1 further comprising a measuring device operable to transmit information respecting the position of said end portion along said second path to said computer, said computer then using this information to control said sheet metal drive.
7. The apparatus of Claim 5 further comprising a measuring device operable to transmit information respecting the position of said end portion along said second path to said computer, said computer then using this information to control said sheet metal drive and said coil drive.



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14. The apparatus of Claim 1 further comprising a guide bearing against at least one edge of said end portion.
15. The apparatus of Claim 14 wherein a first guide roller is fixed and bears against a first edge of said end portion, and a second guide roller is biased against an opposite second edge of said end portion.
16. The apparatus of Claim 15 wherein said first and second guide rollers are located adjacent to said first path, and further comprising a third roller fixed and bearing against said first edge of said end portion between said first guide roller and said coil, and a fourth guide roller biased against said second edge of said end portion between said second guide roller and said coil.
17. A method of cutting sheet metal pieces from a sheet metal coil, said sheet metal coil having a coil axis, said method comprising:

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positioning an end portion from said sheet metal coil to rest on a sheet support;

moving a cutting head back and forth above said end portion and said sheet support along a first path parallel to said coil axis to cut said end portion;

moving said end portion forward and rearward along a second path perpendicular to said coil axis;

coordinating the movements of said cutting head and said end portion along said first and second paths with a computer such that said pieces are cut from said end portion.

18. The method of Claim 17 further comprising rotating said sheet metal coil so as to maintain a slack portion of sheet metal between said sheet metal drive and said sheet metal coil.
19. The method of Claim 17 further comprising guiding said end portion along said second path.

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